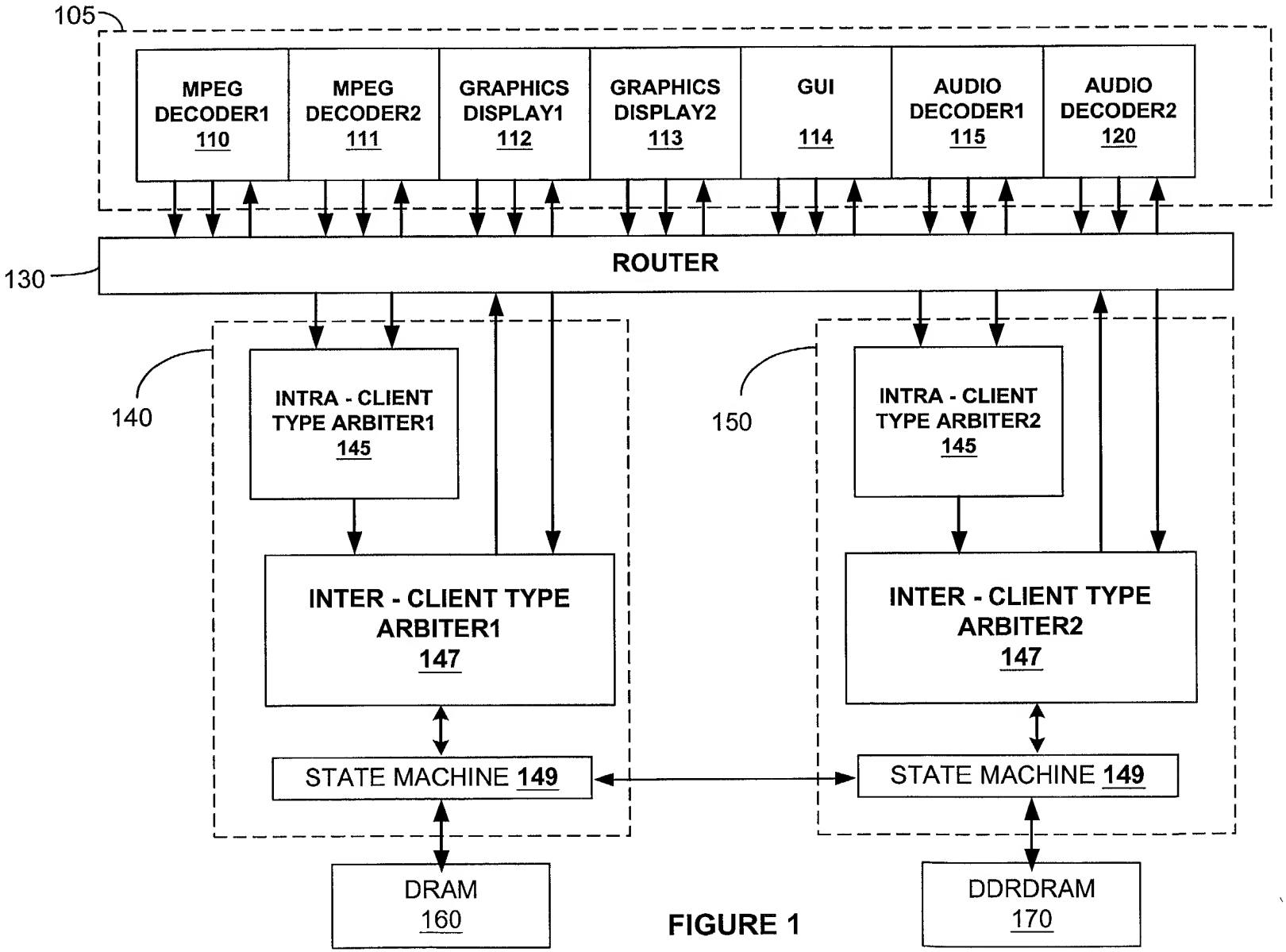
105
MPEG DECODER1 110
MPEG DECODER2 111
GRAPHICS DISPLAY1 112
GRAPHICS DISPLAY2 113
GUI 114
AUDIO DECODER1 115
AUDIO DECODER2 120
130
ROUTER
140
INTRA - CLIENT TYPE ARBITER1 145
INTER - CLIENT TYPE ARBITER1 147
STATE MACHINE 149
150
INTRA - CLIENT TYPE ARBITER2 145
INTER - CLIENT TYPE ARBITER2 147
STATE MACHINE 149
DRAM 160
DDRDRAM 170

FIGURE 1

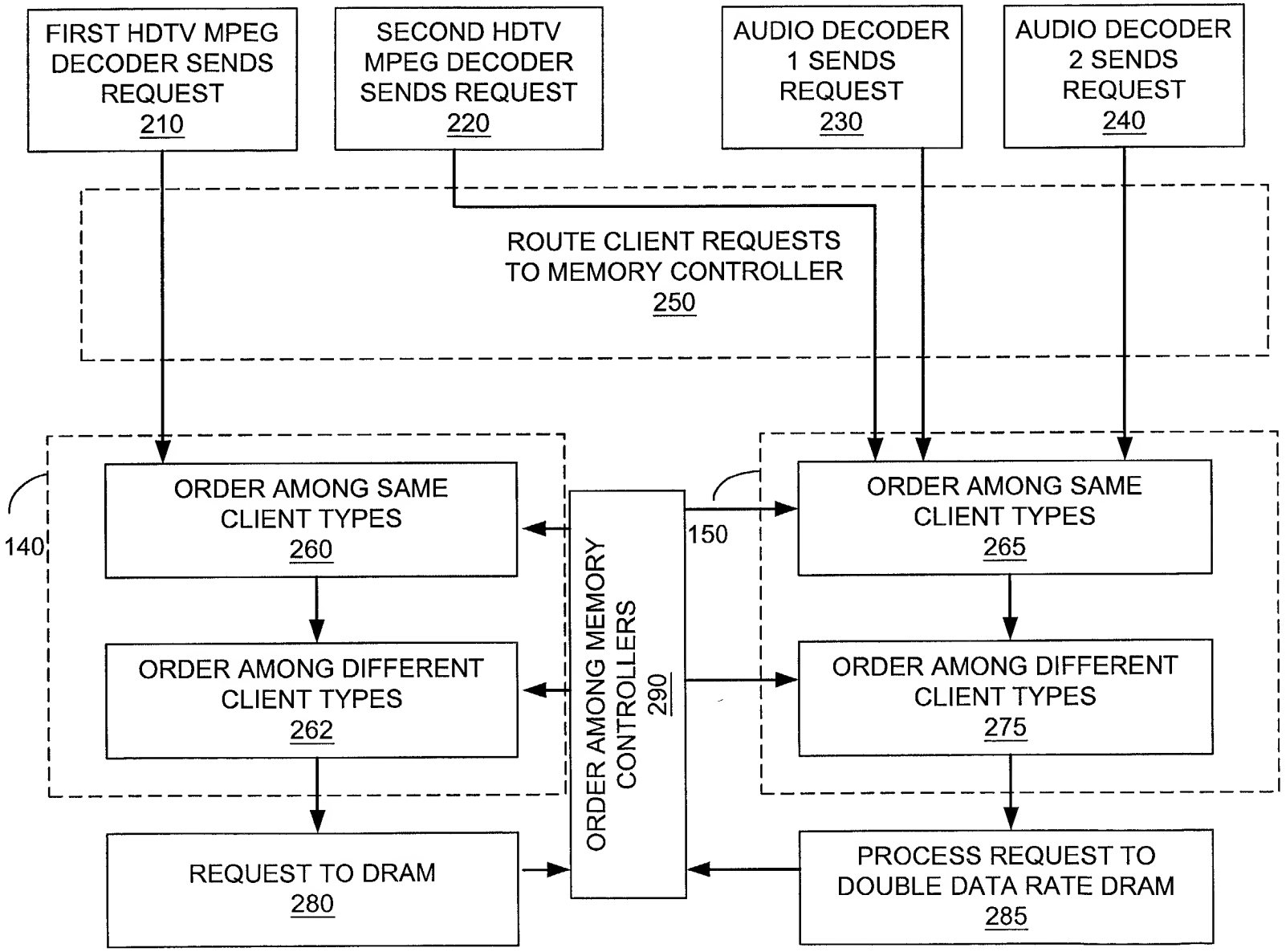
FIRST HDTV MPEG DECODER SENDS REQUEST 210
SECOND HDTV MPEG DECODER SENDS REQUEST 220
AUDIO DECODER 1 SENDS REQUEST 230
AUDIO DECODER 2 SENDS REQUEST 240
ROUTE CLIENT REQUESTS TO MEMORY CONTROLLER 250
140
ORDER AMONG SAME CLIENT TYPES 260
ORDER AMONG DIFFERENT CLIENT TYPES 262
REQUEST TO DRAM 280
ORDER AMONG MEMORY CONTROLLERS 290
150
ORDER AMONG SAME CLIENT TYPES 265
ORDER AMONG DIFFERENT CLIENT TYPES 275
PROCESS REQUEST TO DOUBLE DATA RATE DRAM 285

FIGURE 2

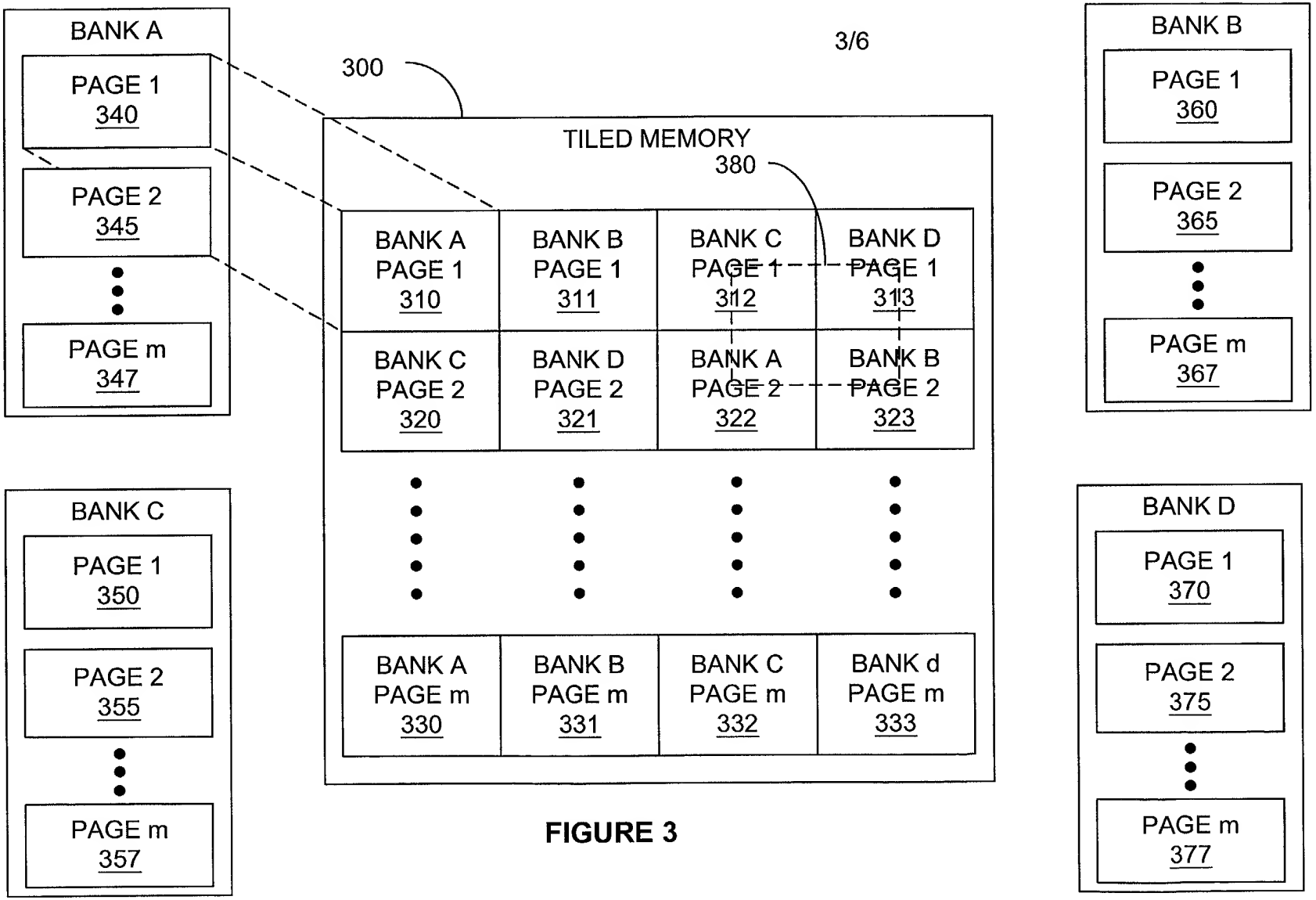
BANK A
PAGE 1
340
PAGE 2
345
PAGE m
347
300
TILED MEMORY
380
BANK A PAGE 1 310
BANK B PAGE 1 311
BANK C PAGE 1 312
BANK D PAGE 1 313
BANK C PAGE 2 320
BANK D PAGE 2 321
BANK A PAGE 2 322
BANK B PAGE 2 323
BANK A PAGE m 330
BANK B PAGE m 331
BANK C PAGE m 332
BANK d PAGE m 333
BANK B
PAGE 1
360
PAGE 2
365
PAGE m
367
BANK C
PAGE 1
350
PAGE 2
355
PAGE m
357
BANK D
PAGE 1
370
PAGE 2
375
PAGE m
377

FIGURE 3

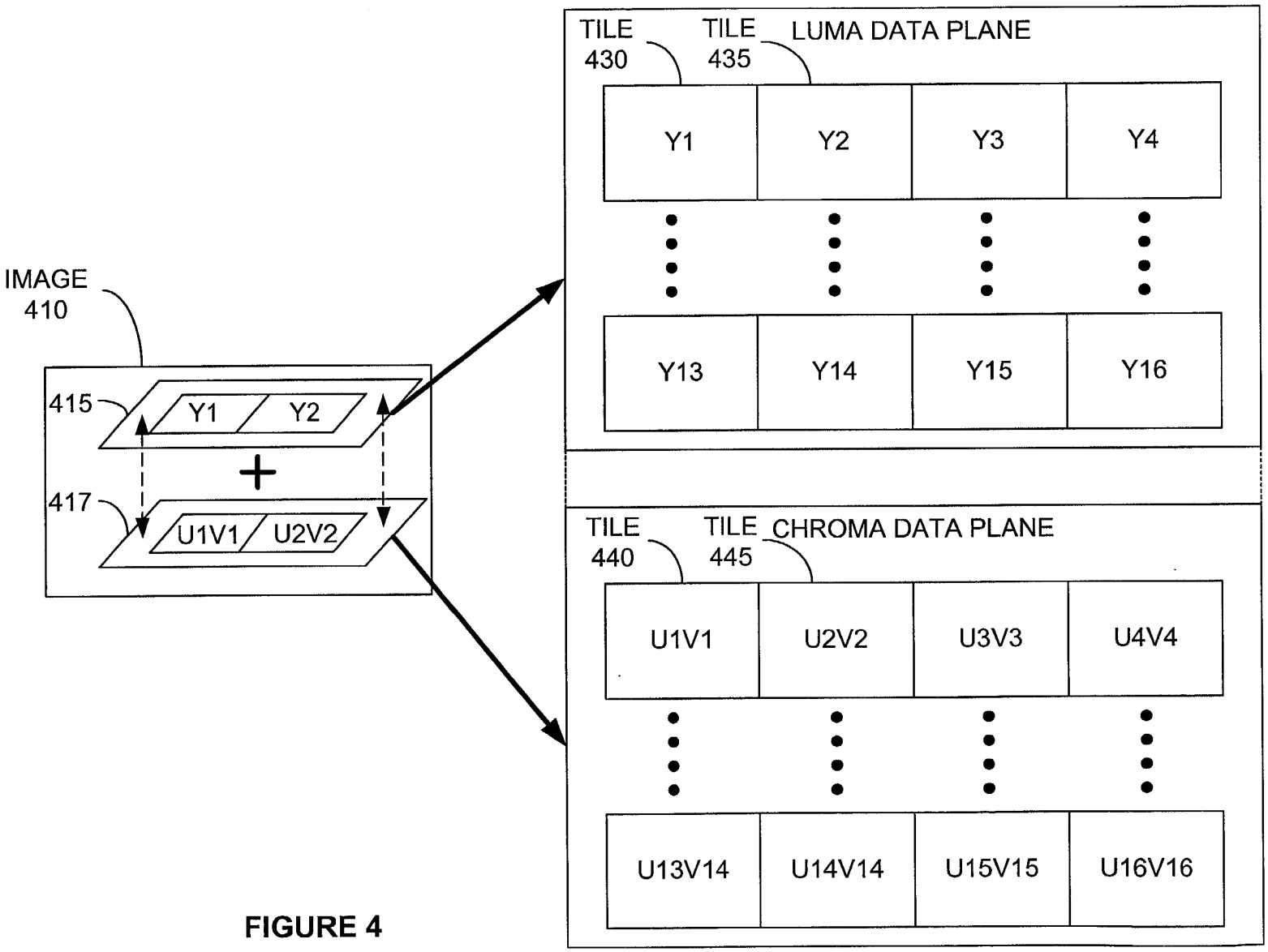
IMAGE
410
415
Y1
Y2
417
U1V1
U2V2
TILE
430
TILE
435
LUMA DATA PLANE
Y1
Y2
Y3
Y4
Y13
Y14
Y15
Y16
TILE
440
TILE
445
CHROMA DATA PLANE
U1V1
U2V2
U3V3
U4V4
U13V14
U14V14
U15V15
U16V16

FIGURE 4

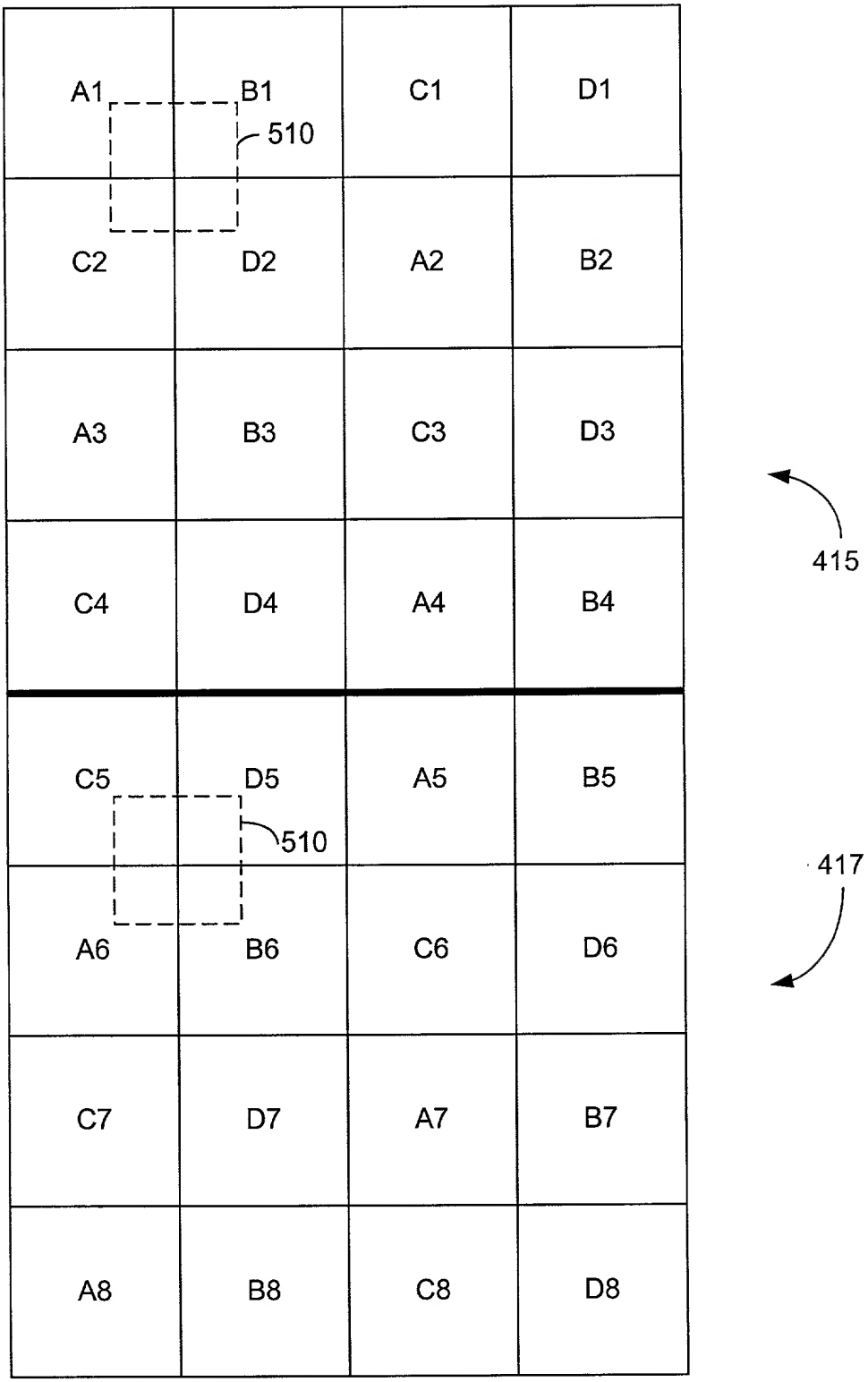
A1
B1
510
C1
D1
C2
D2
A2
B2
A3
B3
C3
D3
C4
D4
A4
B4
415
C5
D5
510
A5
B5
417
A6
B6
C6
D6
C7
D7
A7
B7
A8
B8
C8
D8

FIGURE 5

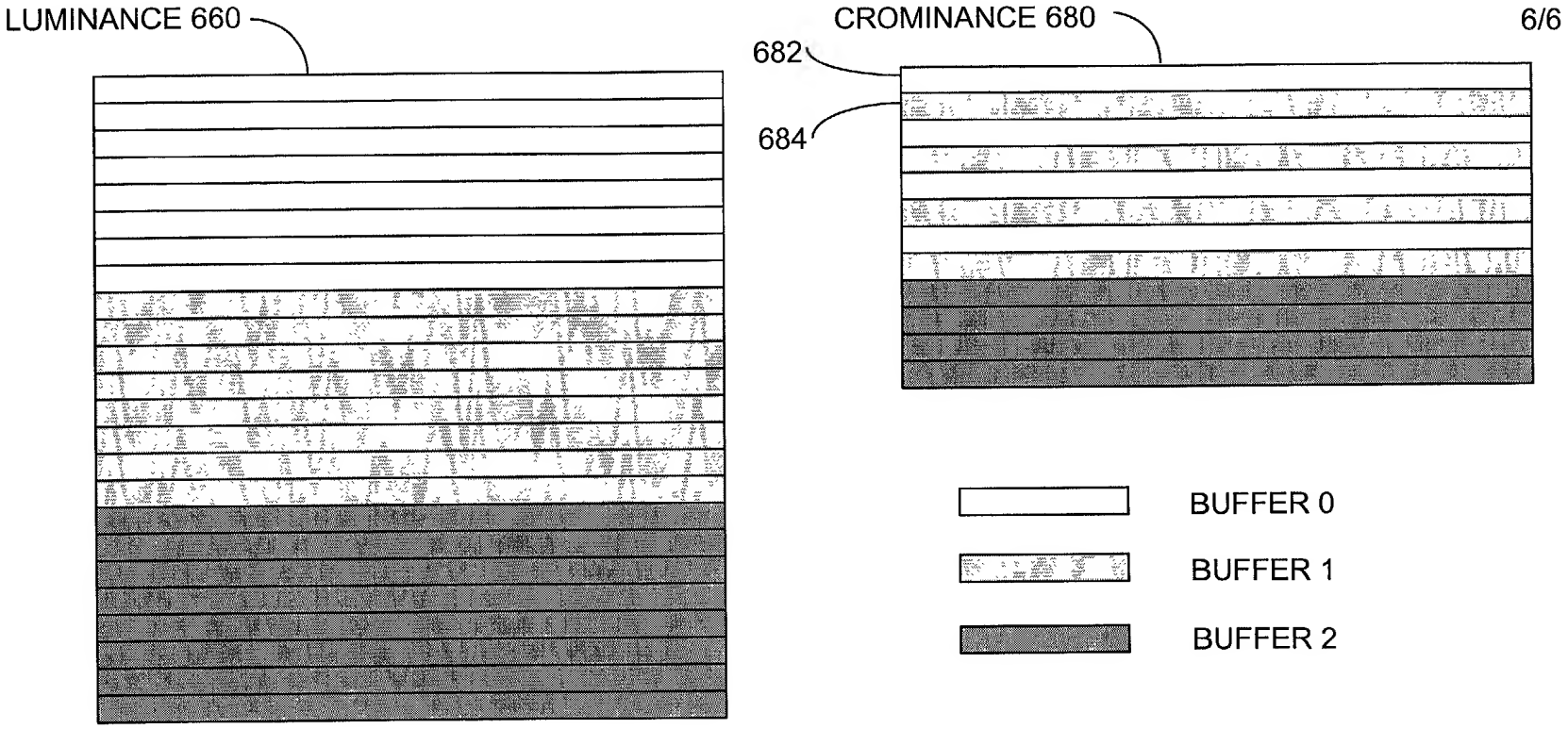
LUMINANCE 660
CROMINANCE 680
682
684
BUFFER 0
BUFFER 1
BUFFER 2

FIGURE 6